

1. (Twice Amended) A coronary sinus accessing system, comprising:

a. an elongated tubular support member configured for intravascular advancement to a right atrium, comprising:

an elongated shaft which has proximal and distal shaft sections and a first lumen extending within the proximal and distal shaft sections; and

a distal tip which has an opening providing exterior access to, and in fluid communication with, the first lumen in the elongated shaft and which is oriented at an angle with respect to a longitudinal axis of the shaft;

b. a guide member which has proximal and distal shaft sections, which is disposed within the first lumen of the tubular support member, which is configured for longitudinal movement through the first lumen and out the distal tip opening and which has a distal extremity configured for entry into a coronary sinus ostium; and

c. a stabilizing member deployable outside the tubular support member and configured to maintain alignment of the tubular support member within the right atrium.

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14. (Twice Amended) A tubular support member configured for intravascular advancement through a patient's vasculature to a right atrium thereof, comprising:

a. an elongated shaft which has proximal and distal shaft sections, a longitudinal axis and at least first and second lumens extending through the proximal and distal shaft sections;

b. a distal tip on the distal shaft section oriented at an angle with respect to the longitudinal axis of the shaft, the distal tip having a first opening providing external access to, and in fluid communication with, the first lumen and configured to facilitate advancement of a guide member through the first opening; and

c. a second opening in the distal shaft section providing external access to, and in fluid communication with, the second lumen in the elongated shaft and configured to facilitate advancement of a support member through the second opening and into the right atrium.

19. (Twice Amended) A coronary sinus accessing system, comprising:

a. a tubular support means configured for intravascular advancement to a right atrium, comprising:

an elongated shaft which has proximal and distal shaft sections, a longitudinal axis and a first lumen extending within the proximal and distal shaft sections; and

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a distal tip which has an opening providing external access to, and in fluid communication with, the first lumen in the elongated shaft and which is oriented at an angle with respect to the longitudinal axis of the shaft;

b. a guide means which is slidably disposed within the first lumen of the tubular support means, which is configured for longitudinal movement through the first lumen and out the distal tip opening and which has a distal extremity configured for entry into a coronary sinus ostium and a delivery therein of a therapeutic or diagnostic device; and

c. a stabilizing means deployable outside the tubular support means and configured to maintain the alignment of the tubular support means within the right atrium.

20. (New) A coronary sinus accessing system, comprising:

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an elongated tubular support member configured for intravascular advancement to a right atrium, the elongated tubular support member comprising an elongated shaft having proximal and distal shaft sections and a first lumen extending within the proximal and distal shaft sections, the elongated tubular support member further comprising a distal tip having a first opening providing exterior access to, and in fluid communication with, the first lumen, and a second opening, the distal tip oriented at an angle with respect to a longitudinal axis of the shaft;

means, deployable through the first lumen and the first opening, for entering a coronary sinus ostium; and

means, deployable outside the tubular support member via the second opening, for stabilizing the tubular support member within the right atrium.